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Harvest of Fishes from Lake Michigan during 2007



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Harvest data were compiled from Lake Michigan fisheries research and management agencies. Pounds of fish harvested are estimated for 22 species from commercial and sport fishing, weir harvest, assessment surveys and incidental catch by the commercial fishery. Illinois data was based on a five year average for sport harvest for the period 2002-2006. Processing had not been completed due to data analysis changes within their creel program.

The total biomass of fish harvested during 2007 is estimated at **17** million pounds. The peak harvest for the survey period (1985 to present) was 56.6 million pounds during 1985. Harvest averaged 38 million pounds from 1985 through 1994, and **18.9** million pounds from 1995 to the present, and showed a general downward trend. The 2007 harvest estimates showed a slight decrease as a result of declines in all fishery types (Figure 1). The bulk of the reduction in harvest during the early 1990's is due to closure of the commercial yellow perch and alewife fisheries as well as a reduction in the Chinook sport harvest.

Overall, harvest from 1994 to the present has been within sustainable harvest limits of 12.2 to 25.5 million pounds, as outlined in the Fish-Community Objectives for Lake Michigan (Eshenroder et al. 1995). Prior to 1994, harvest levels exceeded the upper limit of sustainable harvest.

The salmonine harvest of **10.8** million pounds during 2007 was approximately 200,000 pounds less than the previous year (Figure 3). Salmonine forage appears to be available in some areas of the Lake, but there is reduced condition and abundance of forage, which is a concern.

Chinook salmon harvest during 2007 reached **8.3** million pounds, which is a decrease of nearly one million pounds compared to the 2006 harvest level. This decline is likely attributed to the smaller size of Chinook salmon harvested by anglers and decreases in forage. **Coho salmon** harvest levels increased to nearly one million pounds (**986,000 pounds**) which is up from 2006 levels, but remains below average levels for the time series of 1.2 million pounds. **Steelhead trout** harvest has remained below 1 million pounds for the fifth consecutive year with a harvest of **656,000** pounds but did show an increase over 2006.

Lake trout harvest remains below 1 million pounds and continues to decline from the record high harvest in 1998 of 2.7 million pounds. Total harvest was **562,000** pounds. Only 5.2 % of the salmonine harvest was comprised of lake trout, due in part to the continued availability of the other salmonine species. The **brown trout** harvest of **232,000** pounds showed a decline from 2006 and continues to be only half of the 23 year average of 400,000 pounds. This species provides a supplementary near shore fishery for many agencies during the winter period, and are often not included in DNR creel surveys.

Benthivore harvest continues to be dominated by lake whitefish, with the commercial fishery being the primary source. The harvest of lake whitefish had been declining for the period 1996 to 2002 but has stabilized around 4.0 million pounds. The benthivore fishery totaled **4.4** million pounds during 2007 (Figure 2). The harvest level for 2003-2007 falls within the sustainable harvest target range of 4 to 6 million pounds set by Eshenroder et al. (1995).

The harvest of inshore fishes was within the target range of 2.2 to 4.4 million pounds from 1985 through 1995, but has remained well below target levels since that time (Figure 4). Harvest during 2007 was **881,000** pounds, primarily comprised of yellow perch and walleye. The yellow perch sport harvest has averaged 400,000 pounds since the bag limit reductions were added in 1997. The harvest of yellow perch by sport anglers was **480,000** pounds during 2007. The 1998

and 2002 year classes made up the bulk of the fishery in 2007. Recruitment from the 2003, 2004, and 2005 year-classes may add to the harvest in the upcoming years (YPTG).

Walleye are continuing to gain interest within the near shore fishery. On a lake-wide basis, harvest levels have again reached the target sustainable levels of 200,000 to 400,000 pounds for the first time since, 1996. The 2007 walleye harvest biomass was **244,000** pounds.

Commercial pounds harvested has shown a decrease in 2007, with lake whitefish providing the bulk of the fishery. Lake whitefish harvest in 2007 declined to **4.3** million pounds. Commercial harvest of other species continued a downward trend during the 1990's and into the 2000's, due to a decline in all commercially fished species and the closure of the yellow perch and alewife fisheries. The estimated harvest of commercially valuable species during 2007 declined to **5.9** million pounds(Figure 1 and 5). Harvest of all seven major species during 2007 was lower relative to the ten-year average and remains below 10 million pounds for the entire decade of 2000's. Bloater harvest was **565,000** pounds and has dropped below one million pounds harvested for the second consecutive year and is currently at it lowest level for the 23-year time period.

The primary commercial harvest of yellow perch occurs in the Green Bay area of Wisconsin. During 2007, **62,000** pounds of yellow perch were harvested in Wisconsin waters of Lake Michigan. Green Bay perch stocks had remained relatively strong while populations in the remainder of Lake Michigan experienced recruitment failure.

(In Green Bay, an emergency regulation, for commercial harvest, was implemented in 2001 and remained in effective until May of 2006. A 60,000 pound harvest quota has replaced the 20,000 pound quota for the commercial fishery. The sport daily bag limit also increased to a 15 fish daily limit from the previous 10 fish daily limit.)

References

Eschenroder, R. L., M. E. Holey, T. K. Gorenflo, and R. D. Clark, Jr. 1995. Fish-Community Objectives for Lake Michigan. Great Lakes Fish. Comm. Spec. Pub. 95-3.56 p.

LIST OF FIGURES AND TABLES ASSOCIATED WITH LAKEWIDE HARVEST

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Figure 4. Harvest of Inshore Fishes in Lake Michigan, 1985 through 2007.

Figure 5. Harvest of Selected Commercially Valuable Fish Species in Lake Michigan, 1985 through 2007.

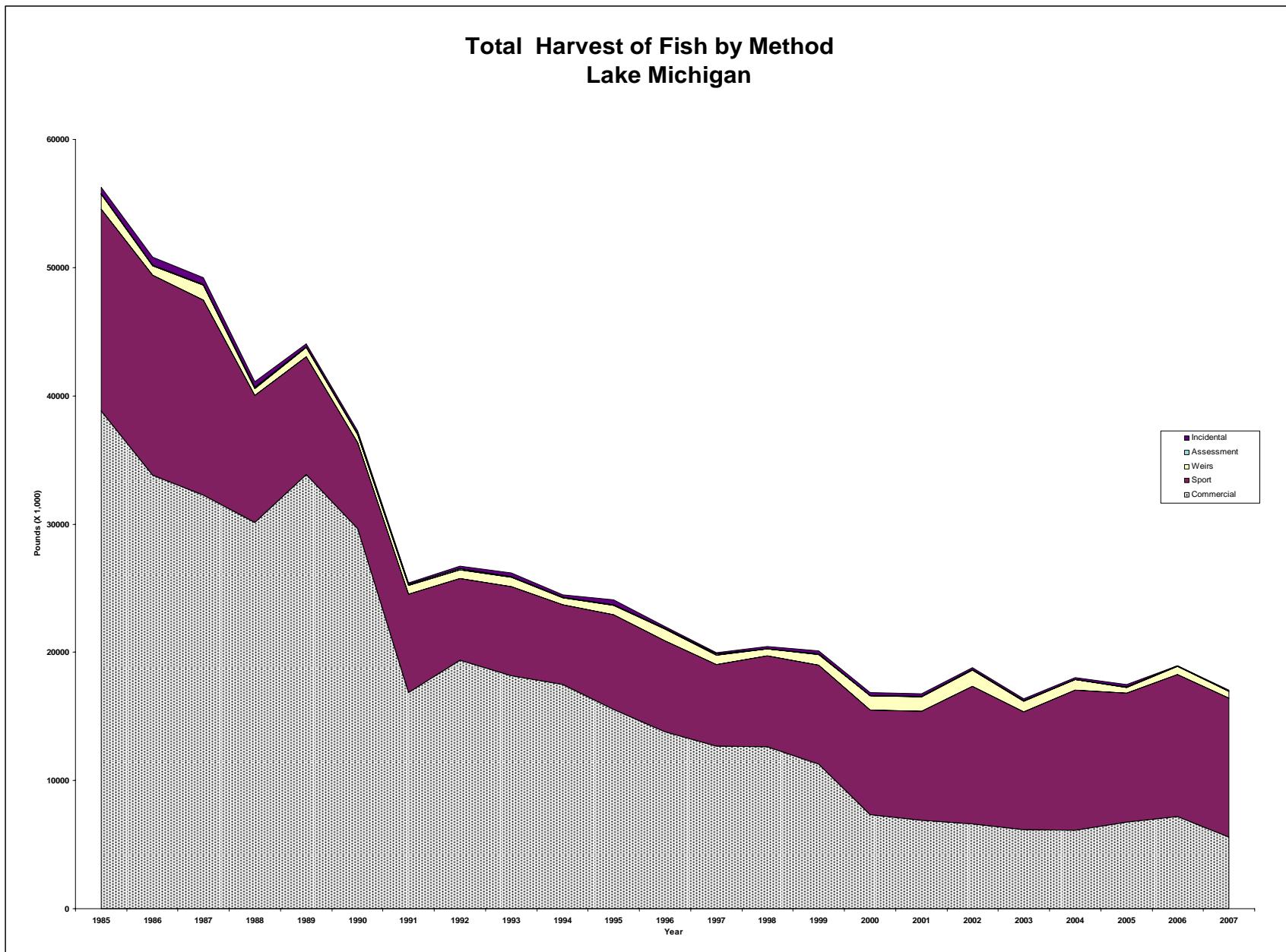


FIGURE 1.

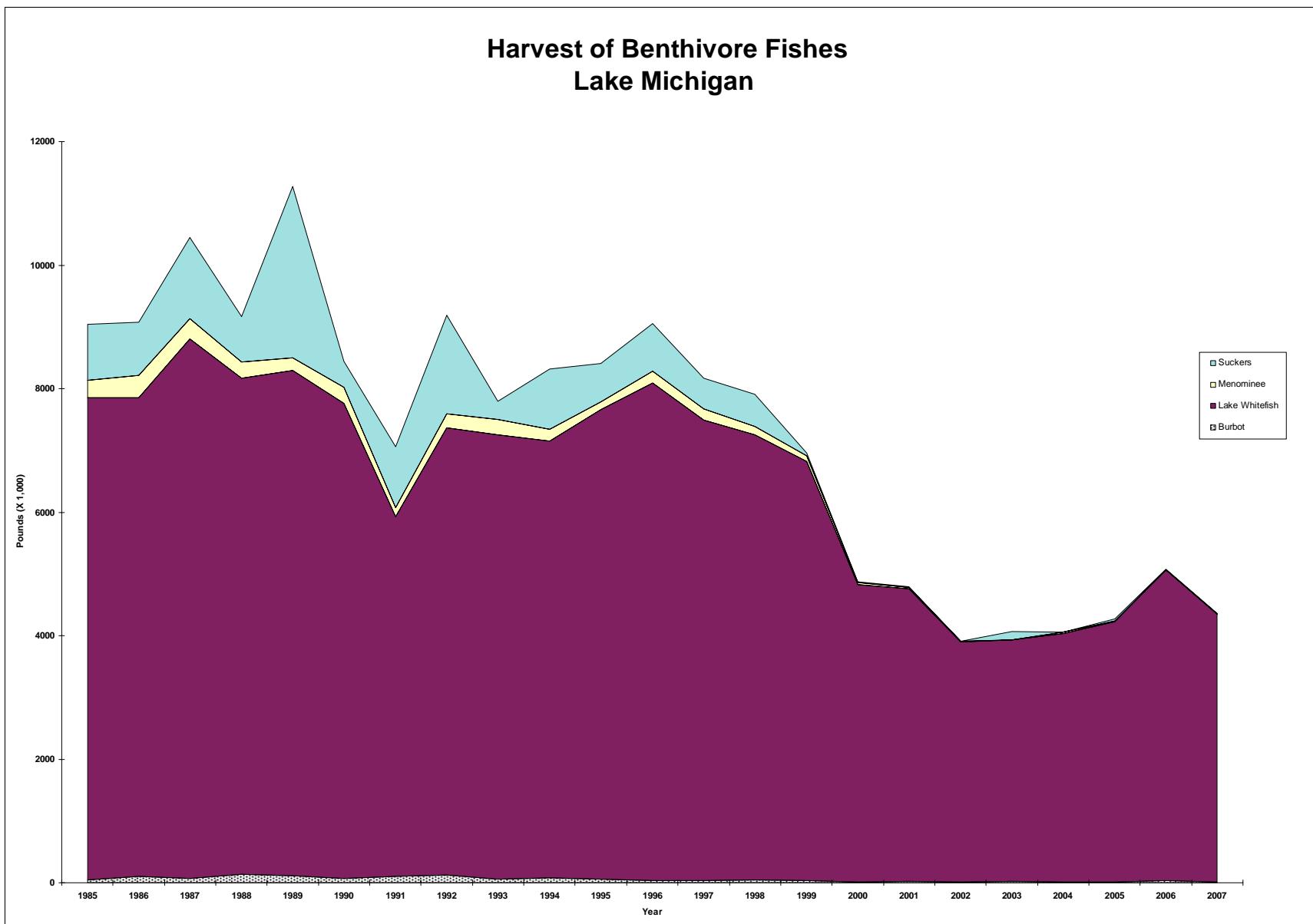


FIGURE 2.

Harvest of Salmonine Fishes Lake Michigan

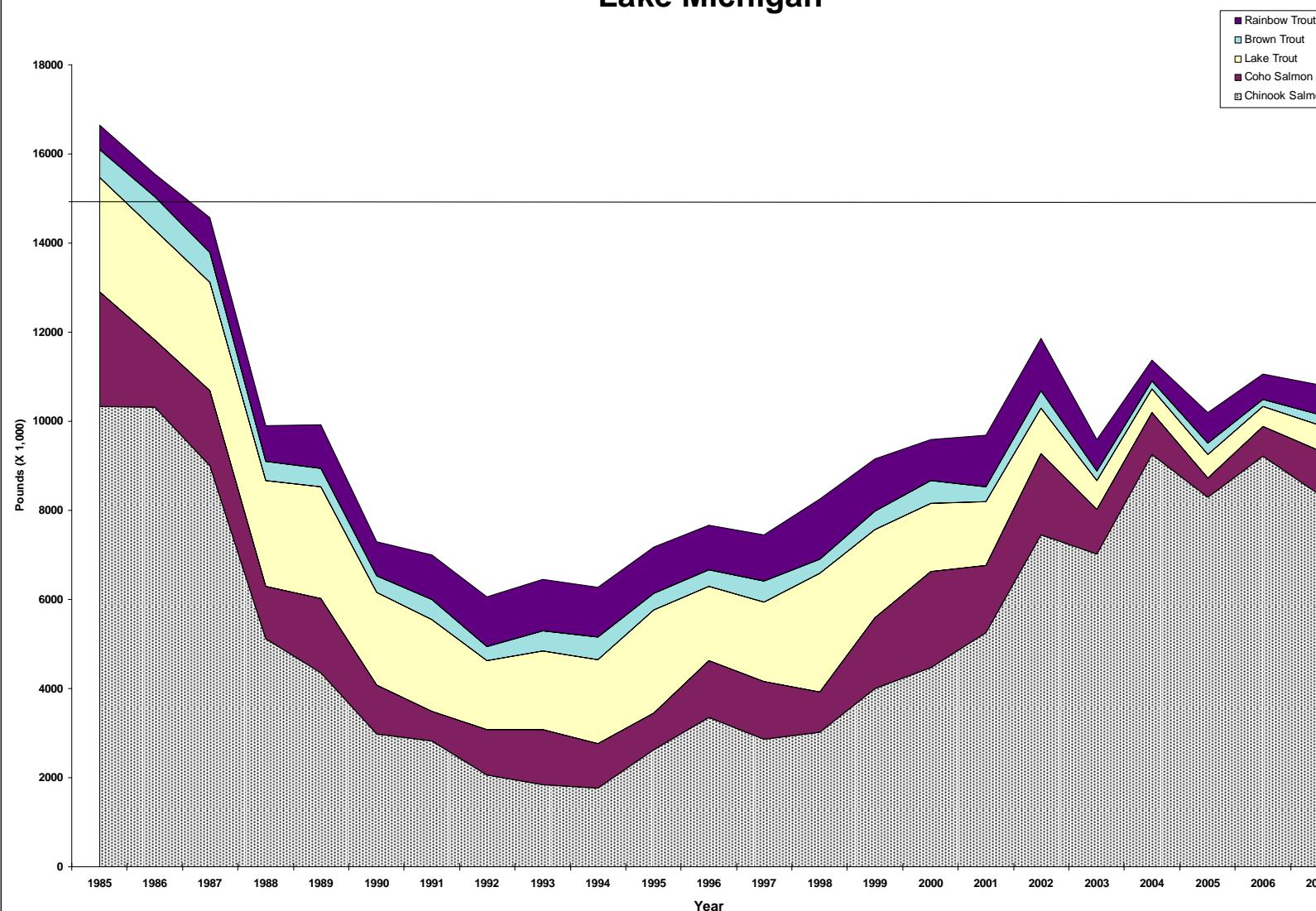


FIGURE 3.

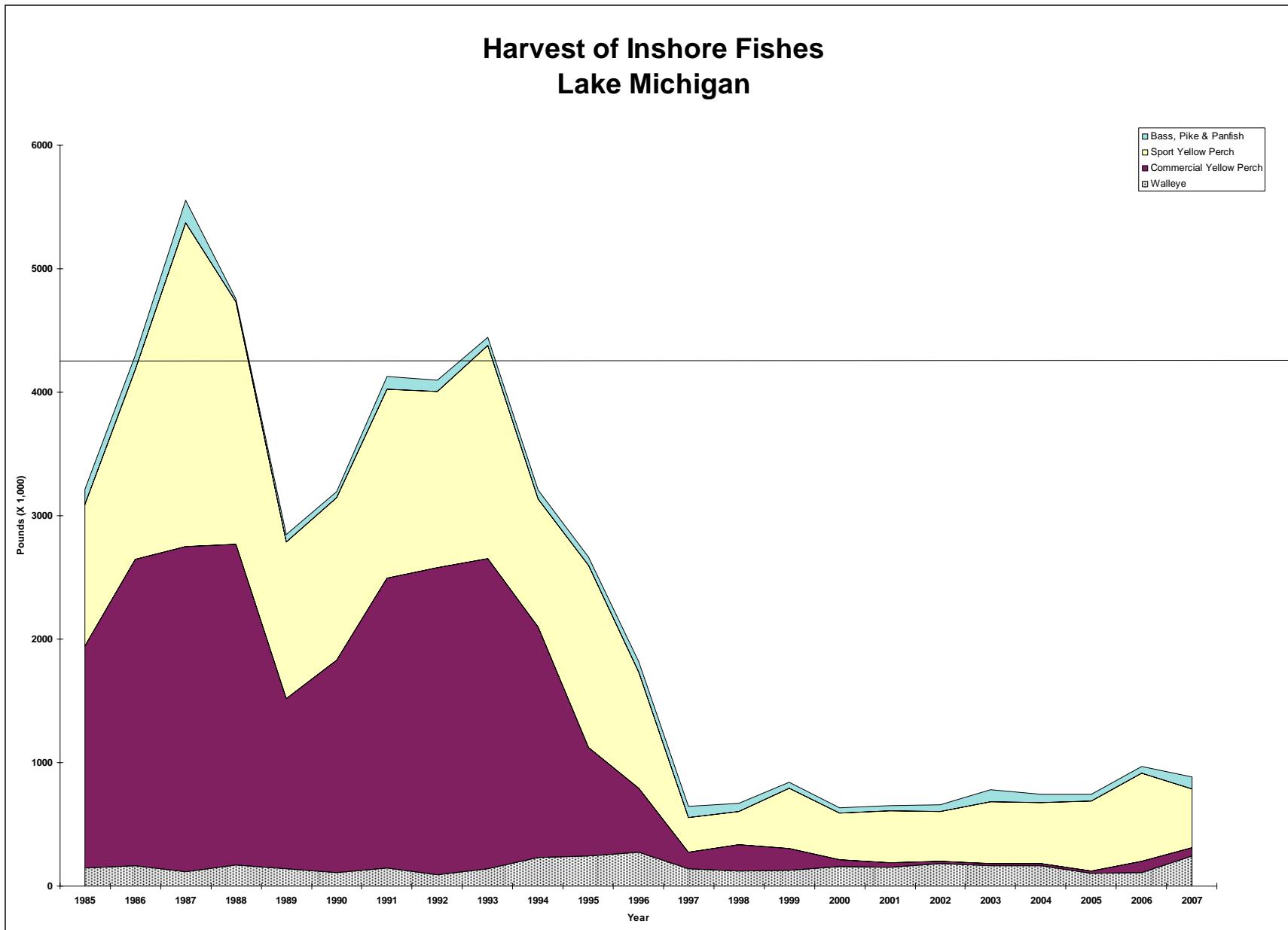


FIGURE 4.

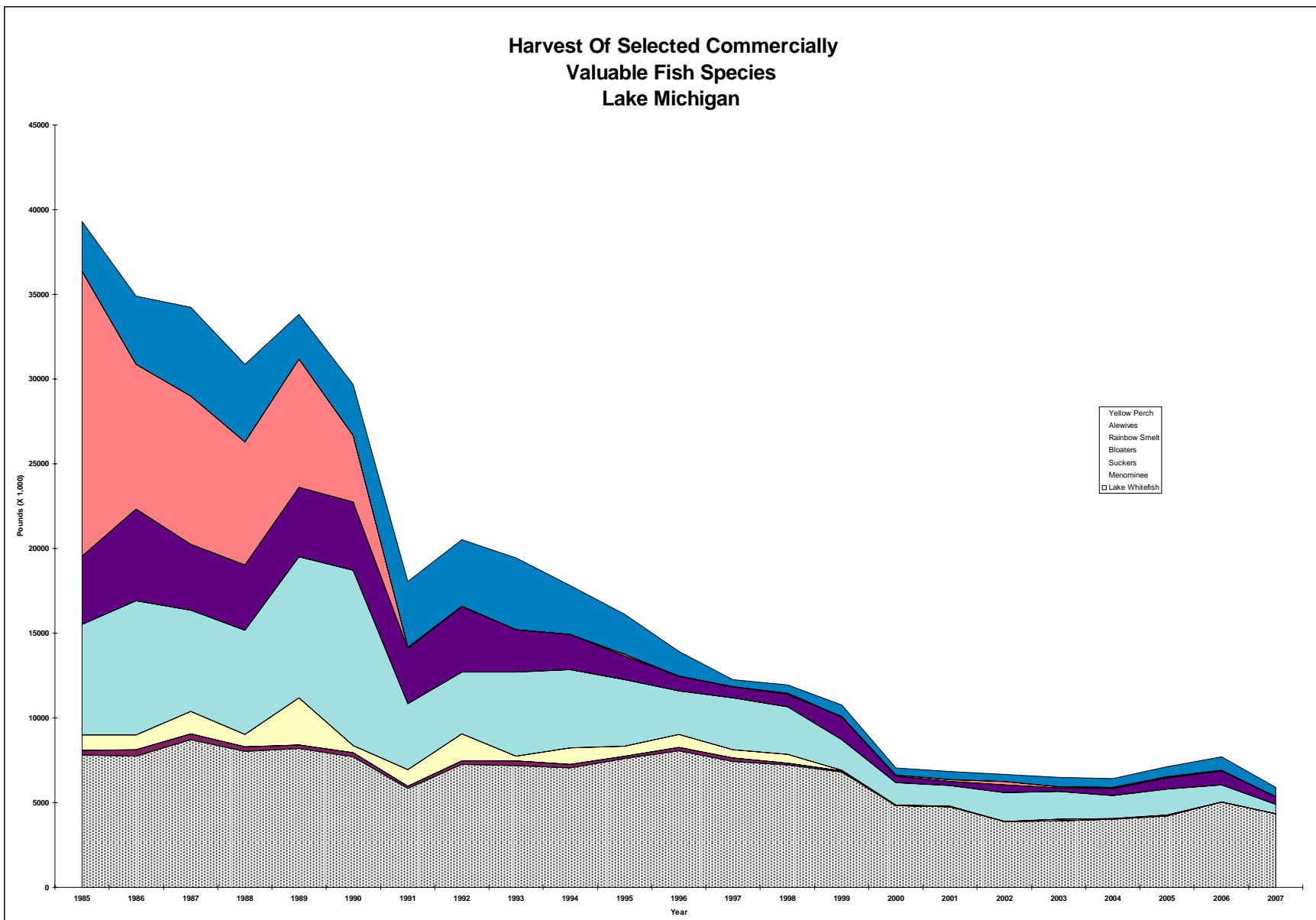


FIGURE 5.

LIST OF TABLES ASSOCIATED WITH LAKEWIDE HARVEST

Table 1. Summary Totals by Species used to generate figures 1 through 5.

Table 2. Total Harvest Summary For All Agencies, by species for the period 1985 to 2007.

Table 3. Commercial Harvest For All Agencies, by species for the period 1985 to 2007.

Table 4. Sport Harvest For All State Agencies, by species for the period 1985 to 2007.

| FIGURE 1. | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Commercial | 38793.8 | 33812.1 | 32272.3 | 30117.4 | 33877.2 | 29641.2 | 16857.6 | 19373 | 18156.1 | 17508 | 15561.43 | 13779.79 |
| Sport | 15787.48 | 15584.65 | 15216.65 | 9923.226 | 9154.657 | 6704.035 | 7680.261 | 6393.237 | 6946.551 | 6211.409 | 7387.109 | 7126.884 |
| Weirs | 1140.5 | 724 | 1130.7 | 534.8 | 717.7 | 641.6 | 696.5 | 683.9 | 753.3 | 522.352 | 698.52 | 885.5 |
| Assessment | 58.8 | 59.4 | 59.1 | 70.5 | 84.8 | 56.7 | 73.7 | 65.8 | 60.9 | 53.074 | 55.136 | 90.534 |
| Incidental | 498.6 | 645.3 | 540.6 | 456.2 | 231.7 | 205 | 98.2 | 199.707 | 261.6 | 199.7 | 414.2 | 110.5 |
| Total | 56279.18 | 50825.45 | 49219.35 | 41102.13 | 44066.06 | 37248.54 | 25406.26 | 26715.64 | 26178.45 | 24494.54 | 24116.4 | 21993.21 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| FIGURE 2. | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Burbot | 49.4 | 96.5 | 69.3 | 141.6 | 109.7 | 71.7 | 103.4 | 120.2 | 52.25 | 84.22 | 54.4 | 31.52 |
| Lake Whitefish | 7802.4 | 7756.7 | 8732.1 | 8023.8 | 8189.5 | 7695.2 | 5822.3 | 7248.1 | 7199.1 | 7062.752 | 7609.864 | 8063.126 |
| Menominee | 284 | 366 | 329.4 | 260.5 | 200.8 | 254.8 | 147.4 | 223.6 | 253.9 | 196.1 | 118.4 | 184.4 |
| Suckers | 905.8 | 859.1 | 1313.4 | 744.5 | 2773.1 | 416.8 | 983.3 | 1599.5 | 292.3 | 973.532 | 621.25 | 774.91 |
| Total | 9041.6 | 9078.3 | 10444.2 | 9170.4 | 11273.1 | 8438.5 | 7056.4 | 9191.4 | 7797.55 | 8316.604 | 8403.914 | 9053.956 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| FIGURE 3. | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Chinook Salmon | 10335.76 | 10312.38 | 8994.268 | 5116.938 | 4351.454 | 2977.711 | 2822.937 | 2059.618 | 1842.279 | 1762.109 | 2627.977 | 3353.066 |
| Coho Salmon | 2564.587 | 1515.623 | 1696.118 | 1167.456 | 1664.531 | 1101.644 | 676.445 | 1018.48 | 1229.13 | 1003.687 | 826.997 | 1269.251 |
| Lake Trout | 2570.738 | 2461.434 | 2427.063 | 2382.343 | 2512.094 | 2084.818 | 2057.36 | 1542.95 | 1775.482 | 1875.4 | 2302.307 | 1667.49 |
| Brown Trout | 629.498 | 740.519 | 664.47 | 430.281 | 413.378 | 366.829 | 452.44 | 321.987 | 444.134 | 510.368 | 381.538 | 372.338 |
| Rainbow Trout | 548.295 | 512.3 | 788.187 | 801.528 | 971.126 | 757.881 | 991.562 | 1112.673 | 1168.025 | 1115.302 | 1037.888 | 996.283 |
| Total | 16648.88 | 15542.25 | 14570.11 | 9898.546 | 9912.583 | 7288.883 | 7000.744 | 6055.708 | 6459.05 | 6266.866 | 7176.707 | 7658.428 |
| % Lake Trout | 0.154409 | 0.15837 | 0.166578 | 0.240676 | 0.253425 | 0.286027 | 0.293877 | 0.254793 | 0.274883 | 0.299256 | 0.320803 | 0.217733 |
| | | | | | | | | | | | | |
| FIGURE 4. | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Walleye | 147.496 | 163.105 | 114.945 | 170.239 | 137.712 | 112.679 | 143.926 | 89.544 | 138.563 | 234.704 | 246.427 | 274.482 |
| Commercial Yellow Perch | 1795.2 | 2483.4 | 2634.9 | 2596.8 | 1379.6 | 1719.3 | 2348.8 | 2490.1 | 2513 | 1865.5 | 877.03 | 517.04 |
| Sport Yellow Perch | 1151.504 | 1538.677 | 2624.872 | 1967.633 | 1266.549 | 1315.172 | 1533.716 | 1426.183 | 1728.177 | 1033.422 | 1476.855 | 938.086 |
| Bass, Pike & Panfish | 119.1 | 112.7 | 181.9 | 20.343 | 61.422 | 49.864 | 102.788 | 93.145 | 64.891 | 74.827 | 61.747 | 87.069 |
| Total | 3213.3 | 4297.882 | 5556.617 | 4755.015 | 2845.283 | 3197.015 | 4129.23 | 4098.972 | 4444.631 | 3208.453 | 2662.059 | 1816.677 |
| | | | | | | | | | | | | |
| FIGURE 5. | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| Lake Whitefish | 7802.4 | 7756.7 | 8732.1 | 8023.8 | 8189.5 | 7695.2 | 5822.3 | 7248.1 | 7199.1 | 7062.752 | 7609.864 | 8063.126 |
| Menominee | 284 | 366 | 329.4 | 260.5 | 200.8 | 254.8 | 147.4 | 223.6 | 253.9 | 196.1 | 118.4 | 184.4 |
| Suckers | 905.8 | 859.1 | 1313.4 | 744.5 | 2773.1 | 416.8 | 983.3 | 1599.5 | 292.3 | 973.532 | 621.25 | 774.91 |
| Bloaters | 6524.6 | 7919.4 | 5987.1 | 6138.7 | 8360.7 | 10342.3 | 3885.7 | 3630.2 | 4971.2 | 4631.98 | 3890.64 | 2567.71 |
| Rainbow Smelt | 4028.4 | 5421.1 | 3876.1 | 3847.6 | 4070.3 | 4017.6 | 3246.6 | 3845 | 2491.7 | 2049.661 | 1422.35 | 889.31 |
| Alewives | 16802.4 | 8539.4 | 8743.9 | 7268.5 | 7579.9 | 3934.9 | 76.6 | 40.9 | 3.5 | 9.38 | 101.757 | 1.16 |
| Yellow Perch | 2952.504 | 4028.077 | 5265.372 | 4568.133 | 2650.749 | 3038.772 | 3886.516 | 3920.583 | 4244.877 | 2899.722 | 2354.485 | 1458.99 |
| Total | 39300.1 | 34889.78 | 34247.37 | 30851.73 | 33825.05 | 29700.37 | 18048.42 | 20507.88 | 19456.58 | 17823.13 | 16118.75 | 13939.61 |

TABLE 1.

| FIGURE 1. | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Commercial | 12679.9 | 12641.45 | 11256.38 | 7333.937 | 6893.822 | 6583.917 | 6164.763 | 6111.18 | 6735.312 | 6676.446 | 5572.983 | |
| Sport | 6376.512 | 7095.2 | 7746.965 | 8143.368 | 8515.9 | 10739.96 | 9204.677 | 10941.46 | 10061.5 | 10735.16 | 10832.7 | |
| Weirs | 740.5 | 500.034 | 840.701 | 1124 | 1100.028 | 1299.8 | 814.82 | 809.52 | 469.1 | 660.008 | 527.76 | |
| Assessment | 54.643 | 29.4646 | 39.884 | 34.856 | 38.8249 | 34.981 | 33.612 | 35.6 | 34.701 | 41.358 | 32.963 | |
| Incidental | 130.5 | 178.94 | 229.7 | 231.445 | 192.42 | 129 | 133.6 | 130 | 175.4 | 0 | 104.2 | |
| Total | 19982.05 | 20445.09 | 20113.63 | 16867.61 | 16740.99 | 18787.66 | 16351.47 | 18027.76 | 17476.01 | 18112.97 | 17070.61 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| FIGURE 2. | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Burbot | 38.8 | 47.893 | 33.601 | 15.046 | 18.674 | 13.645 | 20.875 | 11.728 | 14.682 | 31.283 | 11.533 | |
| Lake Whitefish | 7447.29 | 7205.642 | 6793.035 | 4816.243 | 4745.976 | 3882.623 | 3909.841 | 4022.944 | 4215.897 | 4567.962 | 4339.23 | |
| Menominee | 183.303 | 135.347 | 85.75 | 27.154 | 12.515 | 8.651 | 6.715 | 21.093 | 12.702 | 6.357 | 2.21 | |
| Suckers | 505.93 | 514.9876 | 47.899 | 8.962 | 17.711 | 7.111 | 125.931 | 3.481 | 29.414 | 6.823 | 4.566 | |
| Total | 8175.323 | 7903.87 | 6960.285 | 4867.405 | 4794.876 | 3912.03 | 4063.362 | 4059.246 | 4272.695 | 4612.425 | 4357.539 | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| FIGURE 3. | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Chinook Salmon | 2859.061 | 3022.771 | 4008.256 | 4473.565 | 5252.101 | 7448.99 | 7012.082 | 9249.535 | 8299.629 | 9042.304 | 8376.814 | |
| Coho Salmon | 1295.416 | 895.077 | 1582.163 | 2155.828 | 1509.109 | 1835.275 | 1012.308 | 952.387 | 423.76 | 568.207 | 985.842 | |
| Lake Trout | 1785.474 | 2666.321 | 1987.835 | 1518.253 | 1436.249 | 1010.683 | 633.752 | 523.389 | 533.263 | 419.511 | 562.924 | |
| Brown Trout | 473.206 | 317.836 | 407.701 | 513.562 | 330.12 | 392.858 | 222.207 | 183.797 | 260.806 | 171.008 | 231.853 | |
| Rainbow Trout | 1044.925 | 1353.609 | 1161.788 | 928.576 | 1167.748 | 1173.176 | 711.085 | 456.905 | 679.921 | 542.455 | 656.847 | |
| Total | 7458.082 | 8255.614 | 9147.743 | 9589.784 | 9695.327 | 11860.98 | 9591.434 | 11366.01 | 10197.38 | 10743.49 | 10814.28 | |
| % Lake Trout | 0.239401 | 0.322971 | 0.217303 | 0.15832 | 0.148138 | 0.085211 | 0.066075 | 0.046049 | 0.052294 | 0.039048 | 0.052054 | |
| | | | | | | | | | | | | |
| FIGURE 4. | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Walleye | 139.144 | 121.649 | 125.465 | 158.091 | 152.546 | 181.167 | 162.272 | 164.94 | 101.064 | 110.989 | 244.281 | |
| Commercial Yellow Perch | 136.196 | 211.052 | 176.65 | 57.98 | 38.99 | 19.99 | 19.349 | 17.981 | 23.575 | 90.59 | 65.248 | |
| Sport Yellow Perch | 277.95 | 270.54 | 492.937 | 375.741 | 415.375 | 399.814 | 503.87 | 492.97 | 563.92 | 653.08 | 478.981 | |
| Bass, Pike & Panfish | 90.805 | 65.145 | 48.045 | 41.208 | 44.768 | 56.235 | 92.779 | 65.668 | 56.05 | 61.232 | 92.67 | |
| Total | 644.095 | 668.386 | 843.097 | 633.02 | 651.679 | 657.206 | 778.27 | 741.559 | 744.609 | 915.891 | 881.18 | |
| | | | | | | | | | | | | |
| FIGURE 5. | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Lake Whitefish | 7447.29 | 7205.642 | 6793.035 | 4816.243 | 4745.976 | 3882.623 | 3909.841 | 4022.944 | 4215.897 | 4567.962 | 4339.23 | |
| Menominee | 183.303 | 135.347 | 85.75 | 27.154 | 12.515 | 8.651 | 6.715 | 21.093 | 12.702 | 6.357 | 2.21 | |
| Suckers | 505.93 | 514.9876 | 47.899 | 8.962 | 17.711 | 7.111 | 125.931 | 3.481 | 29.414 | 6.823 | 4.566 | |
| Bloaters | 3030.94 | 2817.428 | 1792.945 | 1335.534 | 1226.781 | 1701.834 | 1626.466 | 1385.654 | 1531.916 | 972.639 | 565.634 | |
| Rainbow Smelt | 663.44 | 701.48 | 1336.399 | 387.918 | 251.244 | 452.632 | 184.766 | 408.929 | 676.416 | 836.38 | 428.76 | |
| Alewives | 5.5 | 92.903 | 16.857 | 48.904 | 109.097 | 200.129 | 97.6 | 63.81 | 44.262 | 28.774 | 20.321 | |
| Yellow Perch | 416.586 | 484.249 | 680.803 | 437.909 | 460.711 | 421.802 | 526.103 | 513.301 | 591.831 | 746.969 | 546.606 | |
| Total | 12252.99 | 11952.04 | 10753.69 | 7062.624 | 6824.035 | 6674.782 | 6477.422 | 6419.212 | 7102.438 | 7165.904 | 5907.327 | |

TABLE 1.

SUMMARY

(X 1,000
Pounds)

| SPECIES | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| chinook salmon | 10335.76 | 10312.38 | 8994.268 | 5116.938 | 4351.454 | 2977.711 | 2822.937 | 2059.618 | 1842.279 | 1762.109 | 2627.977 | 3353.066 |
| coho salmon | 2564.587 | 1515.623 | 1696.118 | 1167.456 | 1664.531 | 1101.644 | 676.445 | 1018.48 | 1229.13 | 1003.687 | 826.997 | 1269.251 |
| pink salmon | 2.4 | 0.1 | 6.5 | 0 | 2 | 0 | 0.1 | 0 | 0.2 | 0 | 0 | 0 |
| lake trout | 2570.738 | 2461.434 | 2427.063 | 2382.343 | 2512.094 | 2084.818 | 2057.36 | 1542.95 | 1775.482 | 1875.4 | 2302.307 | 1667.49 |
| brook trout | 8.9 | 9.681 | 2.944 | 7.029 | 4.061 | 9.551 | 5.601 | 16.08 | 5.306 | 9.62 | 2.385 | 0.732 |
| brown trout | 629.498 | 740.519 | 664.47 | 430.281 | 413.378 | 366.829 | 452.44 | 321.987 | 444.134 | 510.368 | 381.538 | 372.338 |
| rainbow trout | Y548P295 | 512.3 | 788.187 | 801.528 | 971.126 | 757.881 | 991.562 | 1112.673 | 1168.025 | 1115.302 | 1037.888 | 996.283 |
| walleye | 147.496 | 163.105 | 114.945 | 170.239 | 137.712 | 112.679 | 143.926 | 89.544 | 138.563 | 234.704 | 246.427 | 274.482 |
| yellow perch | 2952.504 | 4028.077 | 5265.372 | 4568.133 | 2650.749 | 3038.772 | 3886.516 | 3920.583 | 4244.877 | 2899.722 | 2354.485 | 1458.99 |
| smb, musky, northern | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pike, and panfish | 119.1 | 112.7 | 181.9 | 20.343 | 61.422 | 49.864 | 102.788 | 93.145 | 64.891 | 74.827 | 61.747 | 87.069 |
| burbot | 49.4 | 96.5 | 69.3 | 141.6 | 109.7 | 71.7 | 103.4 | 120.2 | 52.25 | 84.22 | 54.4 | 31.52 |
| lake whitefish | 7802.4 | 7756.7 | 8732.1 | 8023.8 | 8189.5 | 7695.2 | 5822.3 | 7248.1 | 7199.1 | 7062.752 | 7609.864 | 8063.126 |
| menominee | 284 | 366 | 329.4 | 260.5 | 200.8 | 254.8 | 147.4 | 223.6 | 253.9 | 196.1 | 118.4 | 184.4 |
| sturgeon | 0 | 0.437 | 0.882 | 0.836 | 0.73 | 0.686 | 1.186 | 1.784 | 1.414 | 1.071 | 1.883 | 1.371 |
| suckers | 905.8 | 859.1 | 1313.4 | 744.5 | 2773.1 | 416.8 | 983.3 | 1599.5 | 292.3 | 973.532 | 621.25 | 774.91 |
| alewives | 16802.4 | 8539.4 | 8743.9 | 7268.5 | 7579.9 | 3934.9 | 76.6 | 40.9 | 3.5 | 9.38 | 101.757 | 1.16 |
| bloater | 6524.6 | 7919.4 | 5987.1 | 6138.7 | 8360.7 | 10342.3 | 3885.7 | 3630.2 | 4971.2 | 4631.98 | 3890.64 | 2567.71 |
| lake herring | 2.9 | 10.9 | 25.4 | 11.8 | 12.8 | 14.8 | 0.1 | 1.6 | 0.2 | 0.1 | 0.1 | 0 |
| rainbow smelt | 4028.4 | 5421.1 | 3876.1 | 3847.6 | 4070.3 | 4017.6 | 3246.6 | 3845 | 2491.7 | 2049.661 | 1422.35 | 889.31 |
| TOTAL | 56545.1 | 50825.45 | 49219.35 | 41102.13 | 44066.06 | 37248.54 | 25406.26 | 26885.94 | 26178.45 | 24494.54 | 23662.4 | 21993.21 |

**SUMMARY OF LAKEWIDE HARVEST FOR ALL AGENCIES IN 1000'S OF POUNDS
THIS INCLUDES COMMERCIAL, SPORT, WEIR, ASSESSMENT AND INCIDENTAL CATCH**

SUMMARY

(X 1,000
Pounds)

| SPECIES | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------|
| chinook salmon | 2859.061 | 3022.771 | 4008.256 | 4473.565 | 5252.101 | 7448.99 | 7012.082 | 9249.535 | 8299.629 | 9042.304 | 8376.814 | 0 |
| coho salmon | 1295.416 | 895.077 | 1582.163 | 2155.828 | 1509.109 | 1835.275 | 1012.308 | 952.387 | 423.76 | 568.207 | 985.842 | 0 |
| pink salmon | 0 | 0 | 0 | 0 | 0.05 | 0.041 | 0 | 0.01 | 0 | 0 | 0 | 0 |
| lake trout | 1785.474 | 2666.321 | 1987.835 | 1518.253 | 1436.249 | 1010.683 | 633.752 | 523.389 | 533.263 | 419.511 | 562.924 | 0 |
| brook trout | 0.669 | 0.667 | 0.648 | 0.633 | 1.163 | 0.411 | 0.5 | 0 | 0 | 0.051 | 0.1 | 0 |
| brown trout | 473.206 | 317.836 | 407.701 | 513.562 | 330.12 | 392.858 | 222.207 | 183.797 | 260.806 | 171.008 | 231.853 | 0 |
| rainbow trout | 1044.925 | 1353.609 | 1161.788 | 928.576 | 1167.748 | 1173.176 | 711.085 | 456.905 | 679.921 | 542.455 | 656.847 | 0 |
| walleye | 139.144 | 121.649 | 125.465 | 158.091 | 152.546 | 181.167 | 162.272 | 164.94 | 101.064 | 110.989 | 244.281 | 0 |
| yellow perch | 416.586 | 484.249 | 680.803 | 437.909 | 460.711 | 421.802 | 526.103 | 513.301 | 591.831 | 746.969 | 546.606 | 0 |
| smb, musky, northern | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pike, and panfish | 90.805 | 65.145 | 48.045 | 41.208 | 44.768 | 56.235 | 92.779 | 65.668 | 56.05 | 61.232 | 92.67 | 0 |
| burbot | 38.8 | 47.893 | 33.601 | 15.046 | 18.674 | 13.645 | 20.875 | 11.728 | 14.682 | 31.283 | 11.533 | 0 |
| lake whitefish | 7447.29 | 7205.642 | 6793.035 | 4816.243 | 4745.976 | 3882.623 | 3909.841 | 4022.944 | 4215.897 | 4567.962 | 4339.23 | 0 |
| menominee | 183.303 | 135.347 | 85.75 | 27.154 | 12.515 | 8.651 | 6.715 | 21.093 | 12.702 | 6.357 | 2.21 | 0 |
| sturgeon | 1.552 | 2.031 | 3.523 | 0 | 4.322 | 0 | 6.038 | 0.151 | 4.3 | 0.03 | 0.01 | 0 |
| suckers | 505.93 | 514.9876 | 47.899 | 8.962 | 17.711 | 7.111 | 125.931 | 3.481 | 29.414 | 6.823 | 4.566 | 0 |
| alewives | 5.5 | 92.903 | 16.857 | 48.904 | 109.097 | 200.129 | 97.6 | 63.81 | 44.262 | 28.774 | 20.321 | 0 |
| bloaters | 3030.94 | 2817.428 | 1792.945 | 1335.534 | 1226.781 | 1701.834 | 1626.466 | 1385.654 | 1531.916 | 972.639 | 565.634 | 0 |
| lake herring | 0.01 | 0.05 | 0.92 | 0.22 | 0.11 | 0.394 | 0.152 | 0.033 | 0.1 | 0 | 0.405 | 0 |
| rainbow smelt | 663.44 | 701.48 | 1336.399 | 387.918 | 251.244 | 452.632 | 184.766 | 408.929 | 676.416 | 836.38 | 428.76 | 0 |
| TOTAL | 19982.05 | 20445.09 | 20113.63 | 16867.61 | 16740.99 | 18787.66 | 16351.47 | 18027.76 | 17476.01 | 18112.97 | 17070.606 | 0 |

**SUMMARY OF LAKEWIDE HARVEST FOR ALL AGENCIES 1000'S OF POUNDS
INCLUDES COMMERCIAL, SPORT, WEIR, ASSESSMENT & INCIDENTAL**

COMMERCIAL
(X 1,000
Pounds)

| SPECIES | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------------------------|---------|---------|---------|---------|---------|---------|-------------------|--------|---------|--------|----------|----------|
| chinook salmon | 11.6 | 18.7 | 142.1 | 512.7 | 535.5 | 442.1 | 20.6 | 9 | 4.8 | 39.9 | 82.4 | 46.6 |
| coho salmon | 0.7 | 4 | 3 | 29.3 | 31.1 | 23.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| pink salmon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lake trout | 894 | 664.2 | 576.3 | 627 | 680.9 | 751.8 | 303.9 | 382.5 | 411.8 | 616.8 | 626.8 | 748.3 |
| brook trout | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| brown trout | YEAR 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| rainbow trout | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| walleye | 11.5 | 12.5 | 6.6 | 7.7 | 19.7 | 6.1 | 1.8 | 1.7 | 3.8 | 3.7 | 1.1 | 3 |
| yellow perch | 1795.2 | 2483.4 | 2634.9 | 2596.8 | 1379.6 | 1719.3 | 2348.8 | 2490.1 | 2513 | 1865.5 | 877.03 | 517.04 |
| smb, musky, northern | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pike, and panfish | 11 | 6 | 6.8 | 5.7 | 1.2 | 0.3 | 1 | 0.7 | 0 | 0 | 0 | 0 |
| burbot | 48.9 | 94 | 65.1 | 137.2 | 105 | 68.9 | 98.2 | 117.7 | 50.7 | 83.1 | 53.6 | 27.5 |
| lake whitefish | 7520.7 | 7587.2 | 8682 | 7996.1 | 8158.6 | 7671.4 | 5795.4 | 7235.2 | 7189.6 | 7045.1 | 7596.8 | 8033.7 |
| menominee | 258.2 | 322.5 | 298.9 | 254.7 | 191.3 | 249.3 | 144.4 | 222.3 | 245.6 | 195.4 | 118.1 | 184.3 |
| sturgeon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| suckers | 903.4 | 858.4 | 1312.7 | 743.7 | 2772.2 | 415.7 | 968.9 | 1598.2 | 287.3 | 972.9 | 621.1 | 774.6 |
| alewives | 16801.5 | 8536.2 | 8739.1 | 7265.2 | 7577.3 | 3933 | 68.6 | 38.3 | 2.1 | 8.7 | 0 | 0.15 |
| bloaters | 6507.5 | 7906.6 | 5979.6 | 6129 | 8342.9 | 10328.4 | 3861 ₀ | 3602.1 | 4956.6 | 4627.3 | 3708.1 | 2555.4 |
| lake herring | 2.9 | 10.9 | 25.4 | 11.8 | 12.8 | 14.8 | 0.1 | 1.6 | 0.1 | 0.1 | 0.1 | 0 |
| rainbow smelt | 4026.7 | 5307.5 | 3799.8 | 3800.5 | 4069.1 | 4017 | 3244.9 | 3843.9 | 2490.7 | 2049.5 | 1422.3 | 889.2 |
| TOTAL | 38793.8 | 33812.1 | 32272.3 | 30117.4 | 33877.2 | 29641.2 | 16857.6 | 19373 | 18156.1 | 17508 | 15561.43 | 13779.79 |

**COMMERCIAL HARVEST FOR ALL AGENCIES IN 1000'S OF POUNDS
THIS INCLUDES ILLINOIS, INDIANA, MICHIGAN, WISCONSIN and TRIBAL**

TABLE 3.

COMMERCIAL

(X 1,000
Pounds)

| SPECIES | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|-------------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| chinook salmon | 17.7 | 27.432 | 8.25 | 34.78 | 29.11 | 15.747 | 2.949 | 1.307 | 4.036 | 3.774 | 3.483 | 0 |
| coho salmon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.005 | 0 | 0.007 | 0 | 0 |
| pink salmon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lake trout | 694.7 | 902.723 | 979.39 | 622.29 | 490.52 | 290.329 | 182.378 | 169.916 | 198.288 | 213.07 | 252.011 | 0 |
| brook trout | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| brown trout | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| rainbow trout | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| walleye | 8.5 | 1.55 | 1.33 | 12.72 | 12.86 | 15.235 | 9.141 | 21.968 | 17.851 | 2.385 | 7.389 | 0 |
| yellow perch | 136.196 | 211.052 | 176.65 | 57.98 | 38.99 | 19.99 | 19.349 | 17.981 | 23.575 | 90.59 | 65.248 | 0 |
| smb, musky, northern | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pike, and panfish | 0 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| burbot | 36.4 | 47.529 | 32.39 | 12.8 | 17 | 11.95 | 19.7 | 10.84 | 13.634 | 13.316 | 10.8 | 0 |
| lake whitefish | 7414.28 | 7196.453 | 6782.548 | 4789.295 | 4703.814 | 3869.955 | 3893.483 | 4010.202 | 4192.007 | 4509.976 | 4321.763 | 0 |
| menominee | 182.2 | 134.807 | 85.57 | 26.51 | 10.526 | 8.065 | 6.116 | 20.616 | 11.753 | 5.986 | 1.919 | 0 |
| sturgeon | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| suckers | 505 | 514.559 | 47.252 | 7.845 | 8.558 | 2.23 | 125.1 | 2.401 | 24.503 | 0.741 | 0.2 | 0 |
| alewives | 3.8 | 89.9 | 15 | 47.4 | 106 | 197.4 | 96 | 62.5 | 42.9 | 28.1 | 0 | 0 |
| bloaters | 3017.9 | 2814.035 | 1790.858 | 1334.278 | 1225.153 | 1700.122 | 1625.785 | 1384.801 | 1530.865 | 972.231 | 481.075 | 0 |
| lake herring | 0 | 0.048 | 0.92 | 0.22 | 0.11 | 0.394 | 0.152 | 0.032 | 0 | 0 | 0.395 | 0 |
| rainbow smelt | 663.22 | 701.359 | 1336.225 | 387.819 | 251.181 | 452.5 | 184.6 | 408.611 | 675.9 | 836.27 | 428.7 | 0 |
| TOTAL | 12679.9 | 12641.45 | 11256.38 | 7333.937 | 6893.822 | 6583.917 | 6164.763 | 6111.18 | 6735.312 | 6676.446 | 5572.983 | 0 |

**COMMERCIAL HARVEST FOR ALL AGENCIES IN 1000'S OF POUNDS
THIS INCLUDES ILLINOIS, INDIANA, MICHIGAN, TRIBAL, AND WISCONSIN**

4 agencies

(X 1,000
Pounds)

YEAR

| SPECIES | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| chinook salmon | 9539.863 | 9731.578 | 8003.968 | 4098.538 | 3378.054 | 2068.011 | 2314.737 | 1587.318 | 1414.179 | 1412.814 | 2148.767 | 2769.766 |
| coho salmon | 2029.587 | 1200.923 | 1294.818 | 949.156 | 1284.431 | 850.744 | 445.745 | 759.773 | 844.33 | 771.257 | 501.043 | 913.751 |
| pink salmon | 2.4 | 0.1 | 6.5 | 0 | 2 | 0 | 0.1 | 0 | 0.2 | 0 | 0 | 0 |
| lake trout | 1362.438 | 1318.034 | 1432.163 | 1431.243 | 1640.494 | 1177.718 | 1673.36 | 999.45 | 1161.082 | 1061.26 | 1537.489 | 772.53 |
| brook trout | 7.9 | 8.881 | 2.744 | 6.929 | 3.861 | 9.051 | 5.401 | 15.78 | 3.006 | 8.214 | 2.385 | 0.732 |
| brown trout | 615.398 | 711.919 | 646.67 | 420.281 | 403.478 | 344.529 | 436.74 | 307.487 | 424.134 | 507.558 | 377.275 | 365.738 |
| rainbow trout | 537.695 | 499.1 | 772.687 | 795.228 | 965.326 | 754.081 | 984.262 | 1103.273 | 1152.325 | 1099.182 | 1024.154 | 981.283 |
| walleye | 128.296 | 146.605 | 104.245 | 161.639 | 111.112 | 106.079 | 142.026 | 87.844 | 134.763 | 231.004 | 245.327 | 271.382 |
| yellow perch | 1151.504 | 1538.677 | 2624.872 | 1967.633 | 1266.549 | 1315.172 | 1533.716 | 1426.183 | 1728.177 | 1033.422 | 1476.855 | 938.086 |
| smb, musky, northern | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pike, and panfish | 107.8 | 106.4 | 174.8 | 14.543 | 60.122 | 49.464 | 101.788 | 92.445 | 64.891 | 74.827 | 61.747 | 87.069 |
| burbot | 0 | 0 | 0 | 0 | 0.3 | 0.2 | 0.7 | 0 | 0.05 | 0 | 0 | 0 |
| lake whitefish | 278.6 | 167 | 48 | 25.9 | 29 | 23 | 25.8 | 11.9 | 7.4 | 10.8 | 10.184 | 25.176 |
| menominee | 25 | 0 | 42.7 | 29.6 | 5.1 | 9 | 5 | 2 | 0 | 7.1 | 0 | 0 |
| sturgeon | 0 | 0.437 | 0.882 | 0.836 | 0.73 | 0.686 | 1.186 | 1.784 | 1.414 | 1.071 | 1.883 | 1.371 |
| suckers | 0 | 0 | 0 | 0 | 0.2 | 0.3 | 12.7 | 0 | 3.4 | 0 | 0 | 0 |
| alewives | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bloaters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lake herring | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 |
| rainbow smelt | 1 | 112.3 | 74.7 | 46.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 15787.48 | 15584.65 | 15216.65 | 9923.226 | 9154.657 | 6704.035 | 7680.261 | 6393.237 | 6946.551 | 6211.409 | 7387.109 | 7126.884 |

**SPORT HARVEST FOR ALL STATE AGENCIES IN 1000'S OF POUNDS
THIS INCLUDES Illinois, Indiana, Michigan and Wisconsin**

TABLE 4.

4 agencies

SPORT

(X 1,000
Pounds)

| SPECIES | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|-----------|------|
| chinook salmon | 2404.061 | 2738.134 | 3520.723 | 4055.161 | 4618.725 | 6591.548 | 6306.87 | 8503.02 | 7820.87 | 8443.2 | 8015.651 | 0 |
| coho salmon | 959.226 | 615.953 | 1191.972 | 1397.491 | 1003.436 | 1353.335 | 875.344 | 858.2 | 350.15 | 502.07 | 818.272 | 0 |
| pink salmon | 0 | 0 | 0 | 0 | 0.05 | 0.041 | 0 | 0 | 0 | 0 | 0 | 0 |
| lake trout | 983.374 | 1614.825 | 796.891 | 667.415 | 752.582 | 600.404 | 328.28 | 239.71 | 233.82 | 190.61 | 295.847 | 0 |
| brook trout | 0.669 | 0.667 | 0.648 | 0.633 | 1.163 | 0.411 | 0.5 | 0 | 0 | 0.051 | 0.1 | 0 |
| brown trout | 466.706 | 313.331 | 407.158 | 511.898 | 329.143 | 391.308 | 221.78 | 183.35 | 253.87 | 170.32 | 231.486 | 0 |
| rainbow trout | 1029.745 | 1347.189 | 1152.596 | 922.039 | 1157.826 | 1166.406 | 702.55 | 450.2 | 674.42 | 537.12 | 649.547 | 0 |
| walleye | 130.524 | 120.096 | 124.055 | 145.355 | 139.6 | 165.697 | 152.87 | 142.845 | 83.1 | 108.36 | 236.599 | 0 |
| yellow perch | 277.95 | 270.54 | 492.937 | 375.741 | 415.375 | 399.814 | 503.87 | 492.97 | 563.92 | 653.08 | 478.981 | 0 |
| smb, musky, northern | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| pike, and panfish | 90.795 | 65.145 | 48.045 | 41.128 | 44.768 | 56.215 | 92.71 | 65.56 | 55.95 | 61.23 | 92.58 | 0 |
| burbot | 0 | 0 | 0 | 1.362 | 0.5 | 0.3 | 0 | 0 | 0 | 17 | 0 | 0 |
| lake whitefish | 31.61 | 7.289 | 8.417 | 25.145 | 39.91 | 10.08 | 14 | 5.6 | 18.2 | 47.7 | 10 | 0 |
| menominee | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sturgeon | 1.552 | 2.031 | 3.523 | 0 | 4.322 | 0 | 5.903 | 0 | 4.1 | 0 | 0 | 0 |
| suckers | 0.3 | 0 | 0 | 0 | 8.5 | 4.3 | 0 | 0 | 3.1 | 4.421 | 3.637 | 0 |
| alewives | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bloater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lake herring | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| rainbow smelt | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 6376.512 | 7095.2 | 7746.965 | 8143.368 | 8515.9 | 10739.96 | 9204.677 | 10941.46 | 10061.5 | 10735.16 | 10832.700 | 0 |

SPORT HARVEST FOR ALL STATE AGENCIES IN 1000'S OF POUNDS
THIS INCLUDES Illinois, Indiana, Michigan and Wisconsin

TABLE 4.